



# भारत का राजपत्र The Gazette of India

प्राधिकार से प्रकाशित  
PUBLISHED BY AUTHORITY

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नई दिल्ली, शनिवार, सितम्बर 8, 1990 (भाद्रपद 17, 1912)  
NEW DELHI, SATURDAY, SEPTEMBER 8, 1990 (BHADRA 17, 1912)

इस भाग में निम्न पृष्ठ संख्या दी जाती है जिससे कि यह अलग संकलन के रूप में रखा जा सके  
[Separate paging is given to this Part in order that it may be filed as a separate compilation]

## भाग III—खण्ड 2 [PART III—SECTION 2]

पेटेंट कार्यालय द्वारा जारी की गई पेटेंटों और डिजाइनों से सम्बन्धित अधिसूचनाएं और नोटिस  
[Notifications and Notices Issued by the Patent Office relating to Patents and Designs]

THE PATENT OFFICE  
PATENTS AND DESIGNS  
Calcutta, the 8th September 1990

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The Patent Office has its Head Office at Calcutta and Branch Offices at Bombay, Delhi and Madras having territorial jurisdiction on a zonal basis as shown below :—

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Lower Parel (West),  
Bombay-400 013.

The States of Gujarat, Maharashtra and Madhya Pradesh and the Union Territories of Goa, Daman and Diu and Dadra and Nagar Haveli.

Telegraphic address "PATOFFICE".

Patent Office Branch,  
Unit No. 401 to 405, III Floor,  
Municipal Market Building,  
Saraswati Marg, Karol Bagh,  
New Delhi-110 005.

The States of Haryana, Himachal Pradesh, Jammu and Kashmir, Punjab, Rajasthan and Uttar Pradesh and the Union Territories of Chandigarh and Delhi.

Telegraphic address "PATENTOFIC".

Patent Office Branch,  
61, Wallajah Road,  
Madras-600 002.

The States of Andhra Pradesh, Karnataka, Kerala, Tamilnadu, and the Union Territories of Pondicherry, Laccadive, Minicoy and Aminidivi Islands.

Telegraphic address "PATENTOFIS".

Patent Office (Head Office),  
"NIZAM PALACE", 2nd M.S.O. Bldg.,  
5th, 6th and 7th Floor,  
234/4, Acharya Jagdish Bose Road,  
Calcutta-700 020.

Rest of India.

Telegraphic address "PATENTS".

All applications, notices, statements or other documents or any fees required by the Patents Act, 1970 or the Patents Rules, 1972 will be received only at the appropriate Offices of the Patent Office.

**Fees :—**The fees may either be paid in cash or may be sent by Money Order or Postal Order, payable to the Controller at the appropriate Offices or by Bank Draft or Cheque, payable to the Controller drawn on a scheduled bank at the place where the appropriate office is situated.

## पेटेंट कार्यालय

## एकस्य तथा अभिकल्प

कलकत्ता, दिनांक 8 सितम्बर 1990

पेटेंट कार्यालय के कार्यालयों के पते एवं क्षेत्राधिकार

पेटेंट कार्यालय का प्रधान कार्यालय कलकत्ता में स्थित है तथा बम्बई, दिल्ली एवं मद्रास में इसके शाखा कार्यालय हैं, जिनके प्रादेशिक क्षेत्राधिकार जोन के आधार पर निम्न रूप में प्रवर्तित हैं :—

पेटेंट कार्यालय शाखा, टोडी हस्टेट,  
तीसरा तल, लोखर परेल (पश्चिम),  
बम्बई-400 013

गुजरात, महाराष्ट्र तथा मध्य प्रदेश राज्य क्षेत्र एवं संघ शासित क्षेत्र गोवा, दमन तथा दिव एवं दावरा और नगर हवेली।

तार पता—''पेटेंटोफिस''

पेटेंट कार्यालय शाखा,  
इकाई सं० 401 से 405, तीसरा तल,  
नगरपालिका बाजार भवन,  
सरस्वती मार्ग, करोल बाग,  
नई दिल्ली-110 005

हरियाणा, हिमाचल प्रदेश, जम्मू तथा कश्मीर, पंजाब, राजस्थान तथा उत्तर प्रदेश राज्य क्षेत्रों एवं संघ शासित क्षेत्र चंडीगढ़ तथा दिल्ली।

तार पता—''पेटेंटोफिस''

## पेटेंट कार्यालय शाखा,

61, वालाजाह रोड,  
मद्रास-600 002

आंध्र प्रदेश, कर्नाटक, केरल, तमिलनाडु राज्य क्षेत्र एवं संघ शासित क्षेत्र पाण्डिचेरी, लक्षद्वीप, मिनिर्कोय तथा एमिनिदिवि द्वीप।

तार पता—''पेटेंटोफिस''

पेटेंट कार्यालय (प्रधान कार्यालय),  
नियाम पैलेस, द्वितीय बहुतलीय कार्यालय  
भवन 5, 6 तथा 7वां तल,  
234/4, आचार्य जगदीश बोस रोड,  
कलकत्ता-700 020

भारत का अवशेष क्षेत्र

तार पता—''पेटेंट्स''

पेटेंट अधिनियम, 1970 या पेटेंट नियम, 1972 में अपेक्षित सभी आवेदन-पत्र, सूचनाएं, विवरण या अन्य प्रलेख पेटेंट कार्यालय के केवल उपयुक्त कार्यालय में ही प्राप्त किए जाएंगे।

शुल्क :—शुल्कों की अदायगी या तो नकद की जाएगी अथवा उपयुक्त कार्यालय में नियंत्रक को भुगतान योग्य अनादेश अथवा डाक आदेश या जहां उपयुक्त कार्यालय स्थित है, उस स्थान के अनुसूचित बैंक से नियंत्रक को भुगतान योग्य बैंक ड्राफ्ट अथवा बैंक द्वारा की जा सकती है।

## SPECIAL NOTICE

Patent Office Journal, 1979 has been published and copies of the same may be purchased from the Controller of Publications, Civil Lines, Delhi-110 054 at Rs. 360.00 per copy (Inland) or £ 12.00 or \$ 21.00 (Foreign).

## REGISTRATION OF PATENT AGENTS

The following persons have been registered as Patent Agents :

1. Mrs. Priti Sunil Dave,  
Plot No. 1020, "Vrajvihar",  
Krishnagar, Near Dawn,  
Virbhadr Akhada,  
BHAVNAGAR-364001 (Gujarat)
2. Shri Sunil Anirudh Dave,  
Plot No. 1020, "Vrajvihar",  
Krishnagar, Near Dawn,  
Virbhadr Akhada,  
BHAVNAGAR-364001 (Gujarat)
3. Shri V. Veeraraghavan,  
10, Second Main Road,  
C. I. T. Colony, Mysapore,  
MADRAS-600 004.

4. Shri Arunansu Das,  
19/S, Abinash Banerjee Lane,  
CALCUTTA-700 010.

5. Shri M. C. Sarkar,  
AE-725, Sector-1,  
SALT LAKE, Calcutta-700 064.

APPLICATION FOR PATENTS FILED AT THE HEAD OFFICE  
234/4, ACHARYA JAGADISH BOSE ROAD, CALCUTTA-20.

The dates shown in the crescent brackets are the dates claimed Under Section 135, of the Patents Act 1970.

31st July, 1990

- 646/Cal/90 Atochem North America, Inc. Production of alkanesulfonic acids by oxidation of alkanethiols and dialkyl disulfides.
- 647/Cal/90 (1) Kari Ven, (2) Juha Ven, (3) Timo Ven, (4) Petri Ven, (5) Irja Ven. Procedure and device for pumping liquid at high temperature through a pipe.  
(Convention dated February 22, 1990; No. 9004010.6; Great Britain).
- 648/Cal/90 Phillips Petroleum Company. Olefin Polymerization process.

648/Cal/90 Phillips Petroleum Company. Olefin Polymerization process.

6th August, 1990

649/Cal/90 Swann-Morton Limited. Blade extractor.

665/Cal/90 (1) Siemens Aktiengesellschaft, (2) J. Hipp, (3) G. Broehan, (4) Rhein. Braunkohlenwerke Ag. Collision-protection device for conveying appliances.

650/Cal/90 Thomson Consumer Electronics, Inc. Control Signal generator for a television system.

666/Cal/90 (1) Siemens Aktiengesellschaft, (2) J. Hipp, (3) G. Broehan, (4) Rhein. Braunkohlenwerke Ag. Conveying-volume measurement from the cut contour of a bucket-wheel excavator or other open-cast mining appliance.

651/Cal/90 Rosby Corporation. An adapter for adapting a wide-body container.  
[Divisional dated 21st July, 1988]

667/Cal/90 (1) Siemens Aktiengesellschaft, (2) J. Hipp, (3) G. Broehan, (4) Rhein. Braunkohlenwerke Ag. Conveying-quantity control of a bucket-wheel excavator or bucket-wheel pick-up in open-cast mining.

1st August, 1990

652/Cal/90 Hoechst Celanese Corporation. Process for preparing pyridine Carboxylic acid derivatives.

668/Cal/90 (1) Siemens Aktiengesellschaft, (2) J. Hipp, (3) G. Broehan, (4) Rhein. Braunkohlenwerke Ag. Guidance of an excavator bucket wheel for generating predetermined surfaces

653/Cal/90 Westinghouse Electric Corporation. Improvements in or relating to preparation of amorphous metal core for use in transformer.  
[Divisional dated 26th July, 1988]

669/Cal/90 (1) Siemens Aktiengesellschaft, (2) Rhein. Braunkohlenwerke Ag. Control process for open-cast mining conveying appliances.

654/Cal/90 Thomson Consumer Electronics, Inc. Amplifier arrangement for producing a controllable non-linear transfer characteristic useful for improving the contrast of an image.

670/Cal/90 MDT Corporation. Self-contained sterilizer with duty-cycle heater.

655/Cal/90 Isover Saint Gobain. Glass fibers capable of decomposing in a physiological medium.

671/Cal/90 MDT Corporation. X-ray tube head assembly.

656/Cal/90 General Electric Company. High Order Sigma delta oversampled analog-to-digital converter integrated circuit network with minimal power dissipation and chip area requirements.

672/Cal/90 WNC-Nitrochemie GmbH. Apparatus and method of mixing propellant charge powder rods.

657/Cal/90 General Electric Company. Third Order Sigma Delta oversampled analog-to-digital converter network with low component sensitivity.

673/Cal/90 McConway & Torley Corporation. Rotary drawbar assembly.

658/Cal/90 General Electric Company. Plural-order Sigma-Delta Analog-to-digital converters using both single-bit and multiple-bit quantization.

674/Cal/90 Lamerie, N. V. A non-toxic composition in the form of solution/cream for polishing and silver plating a base metal.  
[Divisional dated 29th September, 1987]

659/Cal/90 E. I. Du Pont De Nemours and Company. Cleaning composition of dibasic ester and hydrocarbon solvent.

#### PRINTING SPECIFICATION PUBLISHED

A limited number of Printed Copies of the undernoted Specifications are available for sale from the PATENT OFFICE, CALCUTTA and its Branches at Bombay, Madras and Delhi at Two Rupees per copy.

660/Cal/90 Golden Valley Microwave Foods, Inc. Package with microwave induced insulation chambers.

3rd August, 1990

661/Cal/90 Gauri Prakash Agarwal, Charudatta Yeswant Deshpande and Bajaj Auto Limited. Improved seat for two wheeler motor vehicles.

(1)

157589 157590 157591 157592 157593 157594 157595 157596 157597  
157598 157599 157600 157601 157602 157603 157604 157605 157606  
157607 157608 157609 157610 157611 157612 157613 157614 157616  
157617 157618 157619 157620 157622 157623 157624 157625 157627  
157628.

662/Cal/90 Munters Euroform GmbH. Baffle plate thickner.

(2)

663/Cal/90 Siemens Aktiengesellschaft. Method for transmitting a digital broadband signal in a tributary unit concentration via a network of a synchronous digital multiplex hierarchy.

157629 157630 157631 157632 157633 157634 157635 157636 157637  
157638 157639 157640 157641 157642 157643 157644 157645 157646  
157647 157648 157649 157650 157651 157652 157653 157654 157655  
157656 157657 157658 157659 157660.

664/Cal/90 Garnold townsend. Rotary heat exchanger with segmented seals.

## PATENTS SEALED

165423 165525 165526 165541 165571 165657 165661 165665 165667  
165668 165686 165706 165707 165712 165721 165724 165739 165740  
165747 165748 165756 165761 165765 165766 165767 165769 165770  
165790 165793 165795 165801 165802 165856 165858.

CAL — 12  
MAS — 7  
DEL — 15  
BOM — NIL

## AMENDMENT PROCEEDING UNDER SECTION 57.

(1)

The amendment proposed by Fritz Studer AG, 3602 Thun, Switzerland, in respect of Patent No. 165352 as advertised in Part-III, Section 2 of Gazette of India dated 28-10-1989 have been allowed.

(2)

Notice is hereby given that GTE Valente Corporation a Corporation organised under the laws of the State of Michigan, United States of America, 750 Stephenson Highway, Troy, Michigan 48007, United States of America have made an application under Section 57 of the Patents Act, 1970 for amendment of specification of their application for patent No. 162796 for "A tool comprising abrasive grit embedded in a binding medium".

The application for amendment and the proposed amendments can be inspected free of charge at Patent Office, 234/4, Acharya Jagadish Bose Road, Calcutta-700 017 or copies of the same can be had on payment of usual copying charges. Any person interested in opposing the application for amendment may file a notice of opposition on the prescribed Form 30 within three months from the date of this notification at the Patent Office, Calcutta. If the written statement of opposition is not filed with the notice of opposition it shall be left within one month from the date of filing the said notice.

(3)

Notice is hereby given that Alcatel Austria Aktiengesellschaft, Scheydgass 4, 1210 Vienna, Austria have made an application under Section 57 of the Patents Act, 1970 for amendment of specification of their application for Patent No. 165967 for "A circuit for Telephone Systems".

The amendments are by way of correction. The application for amendments and the proposed amendments can be inspected free of charge at the Patent Office Branch, 61, Wallajah Road, Madras-600002 or copies of the same can be had on payment of the usual copying charges. Any person interested in opposing the application for amendment may file a Notice of opposition on prescribed Form 30 within 3 months from the date of the notification at the Patent Office, Madras-2. If the written statement of opposition is not filed with the Notice of Opposition it shall be left within one month from the date of filing the said notice.

Notice is hereby given that PPG Industries, Inc. have made an application on form-29 under section 57 of The Patents Act, 1970 for amendment of specification of their application for patent No. 506/Del/86. The amendments are by way of correction in order to ascertain the invention more correctly and precisely. The application for amendment and the proposed amendments can be inspected free of charge at the Patent Office Branch, Unit No. 401 to 405, 3rd Floor, Municipal Market Building, Saraswati Marg, Karol Bagh, New Delhi-110005, or copies of the same can be had on payment of usual copying charges.

Any person interested in opposing the application for amendment may file a notice of opposition in form-30 within three months from the date of this notification at Patent Office Branch, Unit No. 401 to 405, 3rd Floor, Municipal Market Building, Saraswati Marg, Karol Bagh, New Delhi-110 005. If the written statement of Opposition is not filed with the notice of opposition it shall be left within one month from the date of filing the said notice.

Notice is hereby given that Bajaj Auto Limited, Akurdi, Pune-411035, Maharashtra, India has made an application under Section 57 of the Patents Act, 1970 for amendment of complete specification for patent application No. 86/Bom/1988 for "A two stroke internal composition engine." The amendments are by way of adding two pages 6A and 6B in the complete specification. The application for amendment and the proposed amendment can be inspected free of charge at the Patent Office Branch, Todi Estate, IIIrd floor, Sun Mill Compound, Lower Parel Bombay-400013, on any working day during the usual office hours or copies of the same can be had on payment of the usual copying charges. Any person interested in opposing the application for amendments may file the notice of opposition on the prescribed Form-30 alongwith full written statement within three months from the date of this notification at the Patent Office Branch, Bombay.

If the full written statement of opposition is not filed with the notice of opposition it shall be left within one month from the date of filing the said notice of opposition.

Notice is hereby given that RECKITT & COLMAN AG, a Swiss Company, Webergasse, 34, 4005 Basle, Switzerland, have made an application under Section 57 of the Patents Act, 1970, for amendment of specification of their application for Patent No. 166578 for "A DEVICE FOR PERMITTING CONTROLLED EMISSION OF VOLATILE SUBSTANCES". The amendments are by way of correction. The application for amendments and the proposed amendments can be inspected free of charge at the Patent Office Branch, 61, Wallajah Road, Madras-600 002 or copies of the same can be had on payment of the usual copying charges. Any person interested in opposing the application for amendment may file a Notice of Opposition on prescribed Form-30 within 3 months from the date of the notification at the Patent Office, Madras-2. If the Written Statement of Opposition is not filed with the Notice of Opposition, it shall be left within one month from the date of filing the said Notice.

## RENEWAL FEES PAID

143301 143359 143434 143763 145379 145654 145688 145721 145792  
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#### CESSATION OF PATENTS

151983 151985 151986 151994 151997 152001 152002 152005 152014  
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#### RESTORATION PROCEEDINGS

Notice is hereby given that an application for restoration of Patent No. 163032 dated the 15th September 1986 made by Ahmedabad Textile Industry's Research Association on the 9th August 1989 and notified in the Gazette of India, Part III, Section 2 dated the 17th March 1990 has been allowed and the said Patent restored.

Notice is hereby given that an application for restoration of Patent No. 163619 dated the 11th November 1986 made by Ashok Bengani on the 22nd December 1989 and notified in the Gazette of India, Part III, Section 2 dated the 17th March 1990 has been allowed and the said patent restored.

Notice is hereby given that an application for restoration of Patent No. 146497 dated the 16th January 1978 made by Narasinha Govind Kamat on the 15th December 1989 and notified in the Gazette of India, Part III, Section 2 dated the 17th March '90 has been allowed and the said Patent restored.

#### COMPLETE SPECIFICATION ACCEPTED

Notice is hereby given that any person interested in opposing the grant of patents on any of the Applications concerned, may, at any time within four months of the date of this issue or within such further period not exceeding one month applied for on Form 14 prescribed under the Patents Rules, 1972 before the expiry of the said period of four months, give notice to the Controller of Patents on the prescribed Form 15, of such opposition. The written statement of opposition should be filed along with the said notice or within one month of its date as prescribed in Rule 36 of the Patents Rules, 1972.

The classifications given below in respect of each specification are according to Indian Classification and International Classification.

A limited number of printed copies of the specifications listed below will be available for sale from the Government of India Book Depot, 8, Kiran Sankar Roy Road, Calcutta, in due course. The price of each specification is Rs. 2/- (postage extra if sent out of India). Requisition for the supply of the printed specifications should be accompanied by the number of the specifications as shown in the following list.

Typed or photo copies of the specifications together with photo copies of the drawings, if any, can be supplied by the Patent Office, Calcutta on payment of the prescribed copying charges which may be ascertained on application to that office. Photo copying charges may be calculated by adding the number of pages in the specification and drawing sheets mentioned below against each accepted specification and multiplying the same by four to get the charges as the copying charges per page are Rs. 4/-.

#### स्वीकृत सम्पूर्ण विनिर्देश

एतद्वारा यह सूचना दी जाती है कि समाप्त आवेदनों में से किसी पर पेटेंट अनुदान का विरोध करने के इच्छुक कोई व्यक्ति, इसके निर्गम की तिथि से 4 महीने या अग्रिम ऐसी अवधि जो उक्त 4 महीने की अवधि की समाप्ति के पूर्व पेटेंट नियम, 1972 के तहत विहित प्रपत्र-14 पर आवेदित एक महीने की अवधि से अधिक न हो, के भीतर कमी भी नियंत्रक, एकदम को ऐसे विरोध की सूचना विहित प्रपत्र-15 पर दे सकते हैं। विरोध सम्बन्धी लिखित वक्तव्य, उक्त सूचना के साथ अथवा पेटेंट नियम, 1972 के नियम 36 में यथाविहित इसकी तिथि के एक महीने के भीतर ही फाइल किए जाने चाहिए।

"प्रत्येक विनिर्देश के संदर्भ में नीचे दिए वर्गीकरण, भारतीय वर्गीकरण तथा अन्तरराष्ट्रीय वर्गीकरण के अनुरूप है।"

नीचे सूचीगत विनिर्देशों की सीमित संख्या में मुद्रित प्रतियाँ, भारत सरकार बुक डिपो, 8, किरण शंकर राय रोड, कलकत्ता में विक्रय हेतु यथासमय उपलब्ध होगी। प्रत्येक विनिर्देश का मूल्य 2/- रु० है (यदि भारत के बाहर भेजे जाएँ तो अतिरिक्त डाक खर्च)। मुद्रित विनिर्देश की आपूर्ति हेतु मांग पत्र के साथ निम्नलिखित सूची में यथाप्रदर्शित विनिर्देशों की संख्या संलग्न रहनी चाहिए।

रूपांकन (चित्र आरेखों) की फोटो प्रतियाँ, यदि कोई हों, के साथ विनिर्देशों की टंकित अथवा फोटो प्रतियों की आपूर्ति पेटेंट कार्यालय, कलकत्ता द्वारा विहित लिप्यान्तरण प्रमार उक्त कार्यालय से पत्र-व्यवहार द्वारा सुनिश्चित करने के उपरान्त उसकी आवश्यकता पर की जा सकती है। विनिर्देश की पृष्ठ संख्या के साथ प्रत्येक स्वीकृत विनिर्देश के सामने नीचे वर्णित चित्र आरेख कागजों को जोड़कर उसे 4 से गुणा करके (क्योंकि प्रत्येक पृष्ठ का लिप्यान्तरण प्रमार 4/- रु० है) फोटो लिप्यान्तरण प्रमार का परिकलन किया जा सकता है।

Ind. Class : 29-B &amp; C &amp; 46-B

167141

[GROUPS-XLI (2) &amp; XLI (3)]

Int. Cl. 4 : G 07 F 7/00

**SHEET HANDLING APPARATUS WITH A COUNTING DEVICE.**

Applicant : BRANDT, INC. OF 1750 WOODHAVEN DRIVE, BENSALEM, PENNSYLVANIA-19020, U. S. A., AN AMERICAN COMPANY.

Inventors : (1) FREDRIC W. BURGER, (2) THEODORE WINKLER.

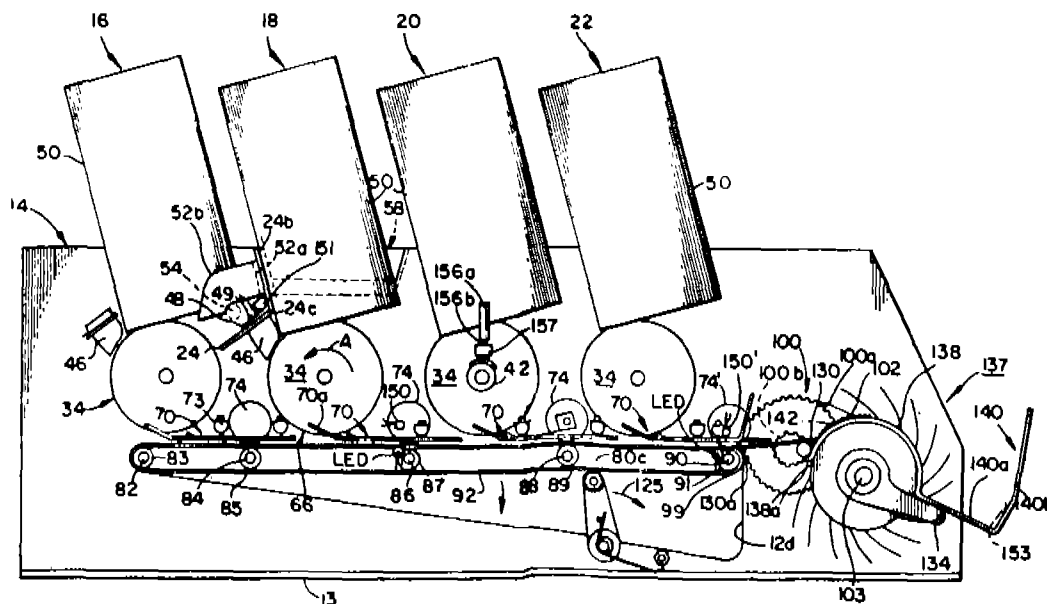
Application No. 78/Mas/86 filed on February 4, 1986.

Appropriate Office for Opposition Proceedings (Rule 4, Patents Rules, 1972), Patent Office, Madras Branch.

**10 Claims**

Sheet handling apparatus with a counting device comprising : an infeed hopper (16, 18, 20, 22) for receiving a stack of single ply sheets; a

feed roller (34); a stripper shoe (46) forming a feed nip with said feed roller; the upstream end of said stripper shoe; the said sheets are guided into said feed nip; an output location (140) and transfer means (137) receiving sheets advanced from said feed nip to the output location; said feed roller extending through a slot (50g) in said infeed hopper and having a high friction surface portion (37) for advancing the bottom sheet in the infeed hopper towards said feed nip and cooperating with said stripper shoe to advance sheets only one sheet at a time beyond said feed nip; the end of said high friction surface portion first passing the stripper shoe being the leading edge (37g); the leading edge of the sheets (S') in the stack being that edge of the sheet adjacent to said tapering throat portion; a notch (34g) arranged adjacent to the leading edge of the high friction surface portion to move the leading edge of a sheet engaging the high friction surface portion into said nip in advance of the leading edge of the high friction surface portion; the annular periphery of said feed roller with said high friction surface portion, being provided with an annular recess (34b, 37c) the width of said stripper shoe being less than the width of said annular recess and being positioned sufficiently close to said recess to urge sheets passing through said feed nip into a curved configuration to facilitate the feeding and stripping operation to feed single sheets towards said transfer means.



Compl. Specn. 34 Pages.

Drgs. 10 Sheets.

Ind. Class : 134-B & 127-A [GROUPS-LII (1) & LXV (1)] 167142  
Int. Cl. 4 : F 16 D 13/10

**A SPLINE CONNECTION ASSEMBLY FOR STATIONARY AND ROTATING CLUTCHES.**

Applicant : GENERAL MOTORS CORPORATION, AN AMERICAN COMPANY INCORPORATED UNDER THE LAWS OF THE STATE OF DELAWARE, IN THE UNITED STATES OF AMERICA OF 3044 WEST GRAND BOULEVARD, DETROIT, MICHIGAN-48202, UNITED STATES OF AMERICA.

Inventor : RICHARD ALAN ORDO.

Application and Provisional Specification No. 115/Mas/86 filed on February 19, 1986.

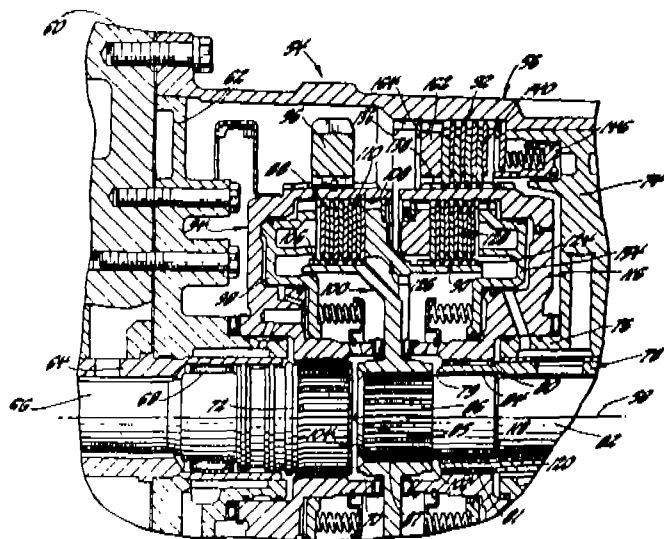
Complete Specification left on 24th March, 1986.

Appropriate Office for Opposition Proceedings (Rule 4, Patents Rules, 1972), Patent Office, Madras Branch.

**6 Claims**

A spline connection assembly for stationary and rotating clutches comprising a first splined member and a second grooved member, said first splined member having a circular edge formed thereon of a first diameter, with at least two spline teeth, angularly-spaced from

one another, projecting radially from the circular edge; said second grooved member having a cylindrical wall concentric to an axis of the second member and having a diameter that is close in size to said first diameter of the splined member, one end of said cylindrical wall having a staging annulus formed thereon in a plane perpendicular to said axis, the staging annulus having a width corresponding substantially to the length of each of said spline teeth, and having a centring guide shoulder formed thereon extending longitudinally outwards from the plane of the staging annulus having one edge coincident with an edge of the staging annulus said cylindrical wall having at least the same number of spline grooves as in the splined teeth on the splined member, each groove being sized to accommodate a respective spline tooth, said grooves extending along said cylindrical wall parallel to said axis so as to intersect the staging annulus at an angular spacing to register with the spline teeth; wherein the splined member and the grooved member are assembled together by advancing the said member relative to one another so as to register the spline teeth on to the corresponding grooves, the centring guide shoulder establishing concentricity between the circular edge on the splined member and the cylindrical wall on the grooved member.



Provn. 21 Pages.

Compl. Specn. 24 Pages.

Drgs. 3 Sheets.

(one sheet of size 33.00 cms. by 41.00 cms.)

Drg. Nil.

Ind. Class : 107-C & G-GROUP-XLVI (2)  
Int. Cl. : F 02 B 75/22

167143

#### A TWO/FOUR STROKE INTERNAL COMBUSTION ENGINE.

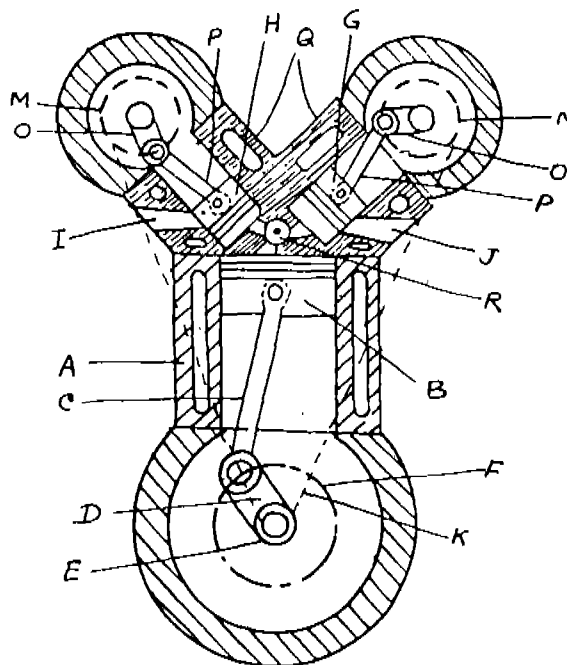
Applicants & Inventors : (1) KADAMBE SESHADRI BALAJI, (2) KADAMBE SESHADRI, OF 7/95, 4TH STREET, CO-OPERATIVE SOCIETY COLONY, POLICHALUR, MADRAS-600 074, TAMIL NADU, BOTH INDIAN NATIONALS.

Application No. 191/Maa/86 filed on March 17, 1986.

Appropriate Office for Opposition Proceedings (Rule 4, Patents Rules, 1972), Patent Office, Madras Branch.

#### 8 Claims

A two/four stroke internal combustion engine comprising a master cylinder having a master piston adapted to move up and down in the bore of the said master cylinder, said master piston being connected by a connecting rod and a crank lever through crank pins and gudgeon pins to a crank shaft, said crankshaft carrying a sprocket or crank gear is adapted to drive a chain, the said crankshaft further carrying a flywheel, characterised in that the cylinder head of the said master cylinder being of larger bore has two opposed inverted cylinders of shorter bore with their respective pistons, said two opposed cylinders being positioned in the form of a "V" on the master cylinder, such that when the pistons of the said opposed cylinder together with the pistons of said master cylinder converge upon each other forms the combustion chamber, the pistons of the said opposed cylinder also connected by connecting rods and cranks to crank gears so as to be actuated by the said chain, the said opposed cylinders being provided with the inlet and the outlet ports of the engine.



Compl. Specn. 13 Pages.

Drgs. 3 Sheets.

Ind. Class : 194-C2-a & b  
Int. Cl. : H 01 J 29/94; 29/22

167144

#### ELECTRON TUBE.

Applicant : KUBUSHIKI KAISHA TOSHIBA, A JAPANESE COMPANY OF 72 HORIKAWA-CHO, SAIWAI-KU, KAWASAKI-SHI, KANAGAWA-KEN, JAPAN.

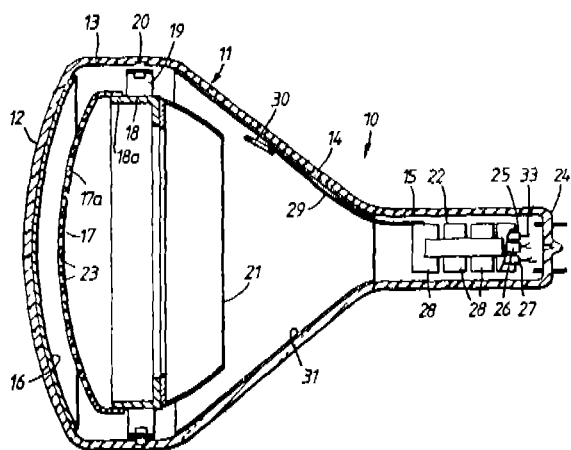
Inventors : (1) SHIGEO TAKENAKA, (2) TAKEO ITOU, (3) NORIO KOIKE, (4) HIDEMI MATSUDA.

Application No. 193/Maa/86 filed on March 17, 1986.

Appropriate Office for Opposition Proceedings (Rule 4, Patents Rules, 1972), Patent Office, Madras Branch.

## 9 Claims

An electron tube comprising at least an electron-emitting cathode and a member (14), (16), (17), (21), (22) with a surface within an evacuated envelope (11), wherein a layer of activated silicon oxide for controlling residual gases is formed on at least a part of said surface.



Compl. Specn. 17 Pages.

Drgs. 2 Sheets.

Ind. Class : 24-D1-[GROUP-LV]  
Int. Cl<sup>4</sup> : B 60 T 11/10

167145

## HYDRAULIC ANTI-SKID BRAKING SYSTEM.

Applicant : LUCAS INDUSTRIES PUBLIC LIMITED COMPANY, A BRITISH COMPANY, OF GREAT KING STREET, BIRMINGHAM 19, ENGLAND.

Inventor : ROBERT ALAN ANDERSON.

Application No. 199/Mas/86 filed on March 18, 1986.

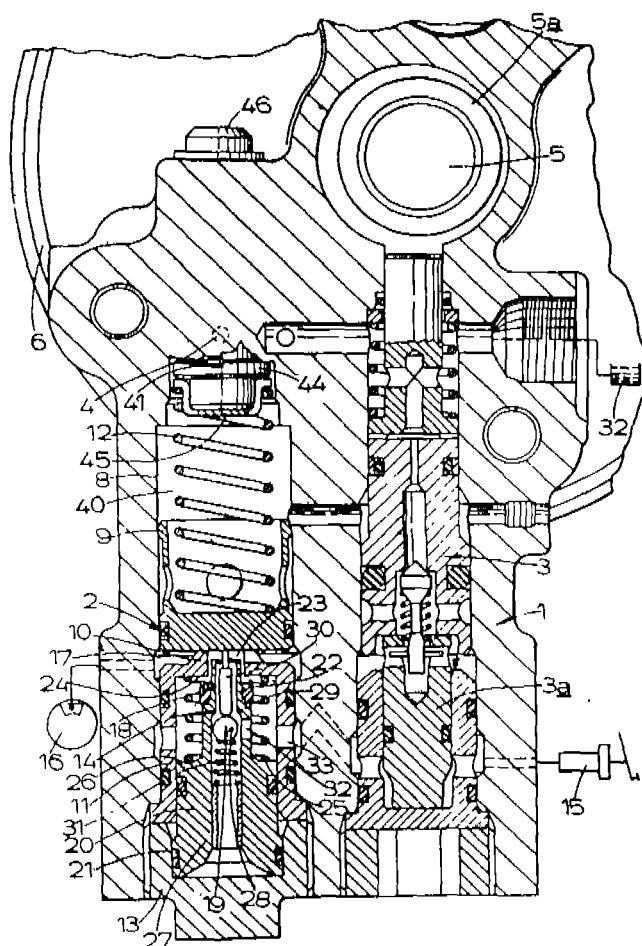
Convention date : March 23, 1985; (No. 8507620; United Kingdom)

Appropriate Office for Opposition Proceedings (Rule 4, Patents Rules, 1972), Patent Office, Madras Branch.

## 7 Claims

An hydraulic anti-skid braking system for vehicles of the kind in which a supply of operating fluid from a supply to a vehicle brake is modulated by a modulator assembly in accordance with skid signals from skid sensing means, and a hydraulic pump comprising at least one plunger working in a bore has a working chamber which is in communication with the modulator assembly to control brake reapplication following skid correction in which the modulator assembly comprises a housing having a bore in which works a de-boost piston for co-operation with a control valve assembly adapted to control communication between the supply of operating fluid and the brake, and the piston is held in an advanced inoperative position by the volume of fluid trapped in a space to which the fluid is supplied by the pump, a bleed device communicates with the fluid held in the space, friction means being provided for holding the bleed device in an open position during initial bleeding of the system, and the bleed device being adapted to close automatically when a fluid pressure to which it is subjected attains a predetermined value sufficient to overcome the

friction means, and in which the friction means comprising a pressure-responsive detent responsive to fluid pressure in the space and movable between an initial advanced position to hold the bleed device in the open position and an inoperative retracted position which permits the bleed device to close automatically when the pressure attains the said predetermined value, the detent being held in its advanced position by frictional engagements with the housing and the bleed device, which frictional engagements are overcome by the force on the detent due to the pressure acting over a pressure-responsive face on the detent.



Compl Specn. 16 Pages.

Drgs. 2 Sheets.

Ind. Class : 63-A1-[Group-LVII (1)]  
Int. Cl. <sup>4</sup> : H 02 K 3/47; 21/24

167146

## A DISC ALTERNATOR.

Applicant : KIRLOSKAR ELECTRIC COMPANY LIMITED, POST BOX NO. 5555, MALLESWARAM WEST, BANGALORE-560 055, KARNATAKA, INDIAN, AN INDIAN COMPANY.

Inventor : S. NARASIMHAN.

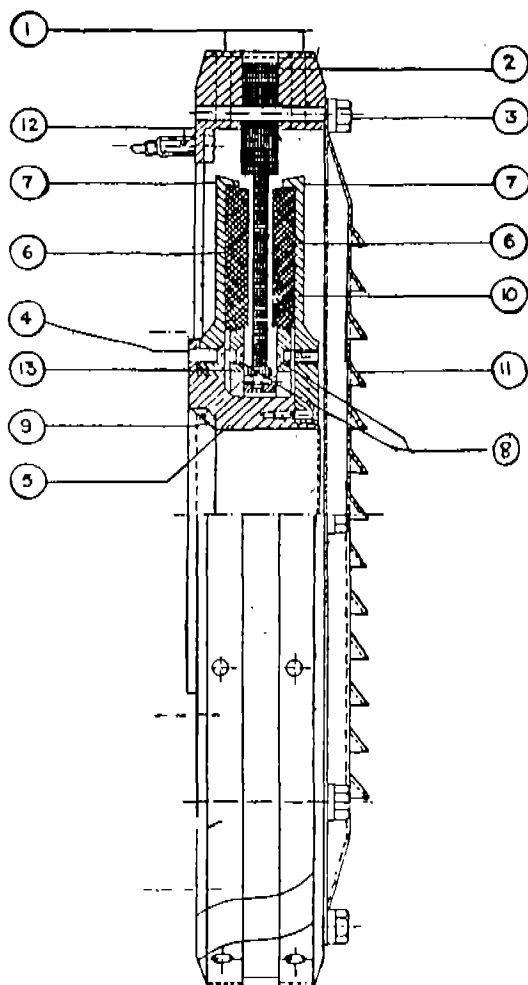
Application No. 206/Mas/86 filed on March 21, 1986.

Appropriate Office for Opposition Proceedings (Rule 4, Patents Rules, 1972), Patent Office, Madras Branch.



## 3 Claims

A disk alternator for use in welding equipments which comprises twin rotors assembly carrying permanent segment magnets, a central discoid winding assembly stator with firm anchoring on the periphery with stator spacer rings, the said rotors being secured on to a driving collar, the collar being connected to the flywheel of the engine, the 'discoid' winding comprises of a multitude of coils duly interconnected by brazing, the ends of the windings being brought out of the alternator using conventional terminations, one or more shim(s) being provided on the collar so as to maintain the working gap between the stator and the rotor.



Compl. Specn. 6 Pages.

Drgs. 3 Sheets.

Ind. Class : 50-B-[VII(1)]  
Int. Cl.<sup>4</sup> : A 23 F 5/48; 3/42

167147

**PROCESS FOR RECOVERY OF AROMAS FROM VEGETABLE MATERIALS SUCH AS COFFEE BEANS AND TEA LEAVES.**

Applicant: SOCIETE DES PRODUITS NESTLE S A, OF CASE POSTALE 353, 1800 VEVEY, SWITZERLAND, A COMPANY INCORPORATED IN SWITZERLAND.

Inventor: YOUSEF GHODSIZADEH.

Application No. 221/Mas/86 filed on March 26, 1986.

2—G—227 GI/90.

Appropriate Office for Opposition Proceedings (Rule 4, Patents Rules, 1972), Patent Office, Madras Branch.

## 7 Claims

A process for recovering aromas such as herein defined from an aroma-bearing particulate vegetable material comprising the steps of:

- (a) stripping aromas from the vegetable material by passing an inert carrier gas through the vegetable material of particle size of 1 to 3 mm in a stripping chamber at a temperature between 60 °C and 82 °C;
- (b) separating the resultant aroma-laden carrier gas from the vegetable material and condensing the aromas in solid form from the aroma-laden carrier gas by contacting the aroma-laden carrier gas with a cryogenic liquid, maintained at -195° C or less said carrier gas having a boiling point equal to or less than the temperatures of said cryogenic liquid;
- (c) separating the solid aromas from the cryogenic liquid by any known process.

Compl. Specn. 15 Pages.

Drg. 1 Sheet.

Ind. Class : 103-[GROUP-XLV (1)]  
Int. Cl.<sup>4</sup> : C 21 D 1/60; C 23 F 11/173

167148

**AN AQUEOUS ORGANIC POLYMER CONTAINING CORROSION INHIBITING, METAL QUENCHING COMPOSITION.**

Applicant: UNION CARBIDE CORPORATION, A CORPORATION ORGANIZED UNDER THE LAWS OF THE STATE OF NEW YORK, U. S. A., OF OLD RIDGEBURY ROAD, DANBURY, STATE OF CONNECTICUT 06817, U. S. A.

Inventor: RONALD HUGH HARDING.

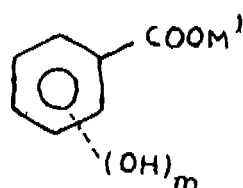
Application No. 227/Mas/86 filed on March 27, 1986.

Appropriate Office for Opposition Proceedings (Rule 4, Patents Rules, 1972), Patent Office, Madras Branch.

## 10 Claims

An aqueous organic polymer containing corrosion inhibiting, metal quenching composition wherein the organic polymer is selected from the group consisting of poly (oxyalkylene)-containing polymers, acrylic acid polymers and copolymers, the alkali metal and ammonium salts of acrylic polymers and copolymers, polyvinylpyrrolidones, polyoxazolines and polyvinyl alcohols, having therein a corrosion inhibiting system which comprises:

- (A) an effective amount as herein defined of a water-soluble aromatic carboxylic acid or salt thereof having one or two aromatic rings and at least one nitro substituent; and
- (B) at least a potentiating amount as herein defined of a water soluble compound of the formula VII of the accompanying drawings



## Formula VII

Wherein M<sup>1</sup> is hydrogen, or an organic or inorganic cation and m is 1 or 2, wherein the mole ratio of (A) to (B) is from 1 : 10 to 10 : 1 and the ratio of water to polymer is from 250 : 1 to 1 : 1.

Compl. Specn. 28 Pages.

Drgs. 2 Sheets.

Ind. Class : 33-A-[GROUP-XXXIII]  
Int. Cl.⁴ : B 22 D 35/04

167149

### A FEEDER SLEEVE FOR USE IN THE CASTING OF MOLTEN METAL.

Applicant: FOSECO INTERNATIONAL LIMITED, A BRITISH COMPANY, OF 285, LONG ACRE, NECHILLS, BIRMINGHAM B7 5JR, ENGLAND.

Inventors: (1) DAVID RICHARD BUTLER, (2) CLIFFORD FRANK CORBETT.

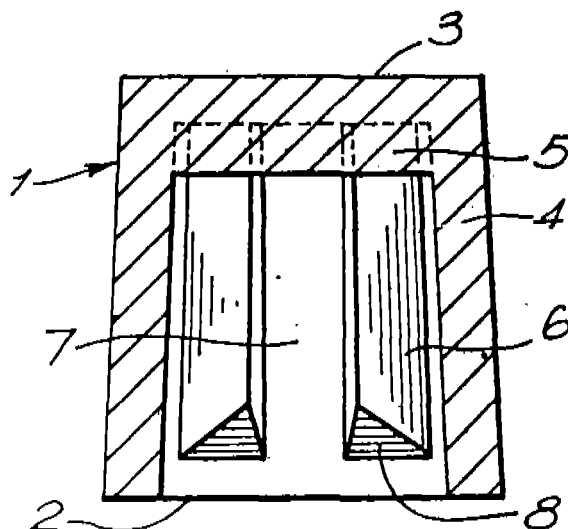
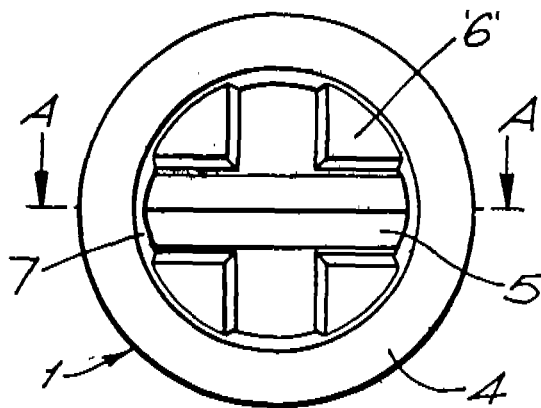
Application No. 229/Mas/86 filed on March 31, 1986.

Convention date: May 17, 1985; (No. 8512514; Great Britain)

Appropriate Office for Opposition Proceedings (Rule 4, Patents Rules, 1972), Patent Office, Madras Branch.

#### 24 Claims

A feeder sleeve for use in the casting of molten metal having an inner surface defining a feeder cavity the inner surface of the sleeve having a plurality of ribs spaced apart around its perimeter, the ribs extending substantially the full length of the inner surface of the feeder sleeve and tapering at their lower ends to meet the inner surface and the number and dimensions of the ribs being such that the volume of the feeder cavity is reduced by at least 20% compared to the volume of the feeder cavity of a sleeve of generally the same internal size and shape but having no ribs.



Compl. Specn. 16 Pages.

Drg. 1 Sheet.

Ind. Class : 158-B; & 174-G [GROUPS-LII (2) & LII (4)] 167150  
Int. Cl.⁴ : B 61 F 5/24

### APPARATUS FOR PREVENTING TURBULENCE IN WHEELED VEHICLES RUNNING ON RAILROAD TRACKS.

Applicant: MITSUBISHI DENKI KABUSHIKI KAISHI, OF NO. 2-3 MARUNOUCHI 2-CHOME, CHIYODA-KU, TOKYO, JAPAN, A JAPANESE COMPANY.

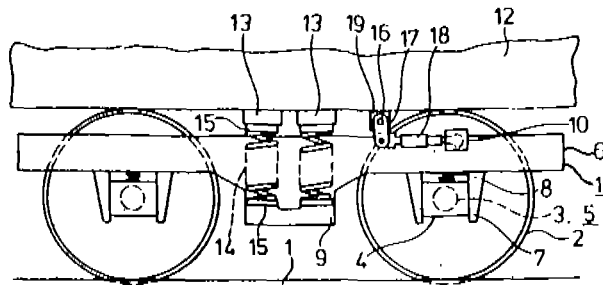
Inventors: (1) HIDEO TERASAWA, (2) YASUHIRO SEKINE.

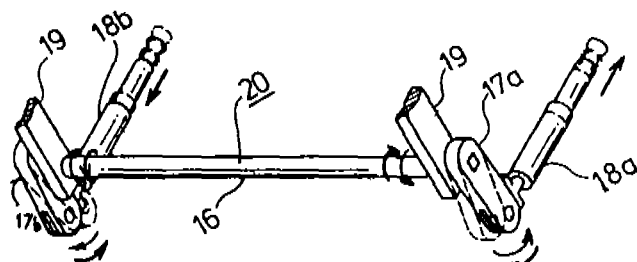
Application No. 240/Mas/86 filed on April 2, 1986.

Appropriate Office for Opposition Proceedings (Rule 4, Patents Rules, 1972), Patent Office, Madras Branch.

#### 2 Claims

An apparatus for preventing turbulence in wheeled vehicles running on railroad tracks comprising a rigid twiddle shaft arranged in parallel with a truck axle and located at a fixed distance from the center of rotation of a truck, both ends of said twiddle shaft being rotatably supported in the radial direction, with a vehicle body mounted on said truck; a pair of links whose ends are respectively fastened to the ends of said twiddle shaft; and a pair of oil damper means whose ends on one side are pivotally respectively connected to the other ends of said links and whose ends on the other side thereof are movably supported around the fixed positions of said truck.





Compl. Specn. 8 Pages.

Drgs. 3 Sheets.

Int. Cl. : H 01 s 3/086.

167151

**IMPROVED APPARATUS FOR THE PRODUCTION OF CO<sub>2</sub> LASER IMPULSE OF HIGHER CAPACITY.**

Applicant : VEB KOMBINAT FEINMECHANISCHE WERKE HALLE GDR-4020 HALLE, RUDOLF-BREITSCHIED-STRASSE 71, GERMAN DEMOCRATIC REPUBLIC.

Inventors : (1) DR. POHLER MANFRED, (2) DR. STAUPEN-DAHL, GISBERT, & (3) WITTIG, RICHARD.

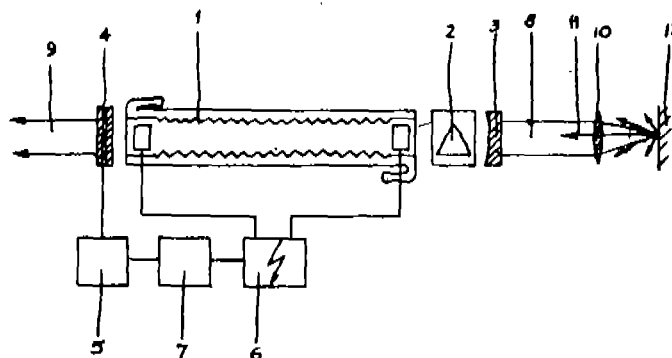
Application No. 156/Cal/1987 filed on March 2, 1987.

Appropriate Office for Opposition Proceedings (Rule 4, Patents Rules, 1972), Patent Office, Calcutta.

**7 Claims**

An improved apparatus for the generation of CO<sub>2</sub> laser high-power pulses, wherein power is supplied to a laser-gas discharge from a power supply unit, which permits the pulsed supply of pumping energy, the laser-gas discharge having an associated laser resonator, the improvement wherein the associated laser resonator is comprised of :

A first resonator mirror with a fixed reflectivity  $R_1$ , a frequency selective element, an angle-selective gas discharge tube, and an interferometer arrangement of the Fabry-Perot type adapted to function as a second resonator mirror with a variable reflectivity  $R_2$ , said interferometer arrangement having been formed by a known modulator and comprising at least a material transparent to laser radiation and having a rapidly changeable optical wavelength, the optical wavelength of said interferometer being alterable by control signals, whereby the reflectivity  $R_2$  can be adjusted to a value between zero and a maximum and the value of  $R_2$  is a function of the laser wavelength whereby the laser resonator is forced by means of the frequency selective and angle-selective elements to work at a specified fixed wavelength, and the reflectivity  $R_1$  of said first resonator mirror is sufficient to enable the laser to operate steadily when the variable reflectivity  $R_2$  is large, and the total resonator losses can be varied rapidly by means of the variable reflectivity  $R_2$  of the Fabry-Perot, interferometer between a state in which the laser is below its operating threshold and a state with full laser function, and wherein a power supply for supplying electrical excitation energy of the gas discharge in pulsed fashion to the laser resonator synchronously with the electrical control signals of the interferometer with the variable reflectivity  $R_2$ , but with a precisely defined start in terms of time relative to them, whereby, with a minimum thermal load on the laser mixture, a maximum population inversion is attained at the moment at which the CO<sub>2</sub> laser exceeds its operating threshold due to the variable reflectivity  $R_2$  so that radiation pulses of extremely high power magnification arise and leave the laser as operating beams.



Compl. Specn. 15 Pages.

Drg. 1 Sheet.

CLASS :

167152

Int. Cl. : H 01 s 3/00.

**APPARATUS FOR INTERNAL INTENSITY-MODULATION OF SELECTIVE WAVE-LENGTH AND PRODUCTION OF IMPULSIVE RADIATION FROM HIGHLY EFFECTIVE CO<sub>2</sub>-LASERS.**

Applicant : VEB KOMBINAT FEINMECHANISCHE WERKE HALLE GDR-4020 HALLE, RUDOLF-BREITSCHIED-STRASSE 71, GERMAN DEMOCRATIC REPUBLIC.

Inventors : (1) DR. POHLER, MANFRED, (2) DR. STAUPEN-DAHL, GISBERT, (3) WITTIG, RICHARD.

Application No. 157/Cal/1987 filed on March 2, 1987.

Appropriate Office for Opposition Proceedings (Rule 4, Patents Rules, 1972), Patent Office, Calcutta.

**1 Claim**

An apparatus for the wavelength-selective internal intensity modulation and radiation pulse generation of high-power CO<sub>2</sub> lasers, wherein the associated laser resonator is comprised of :

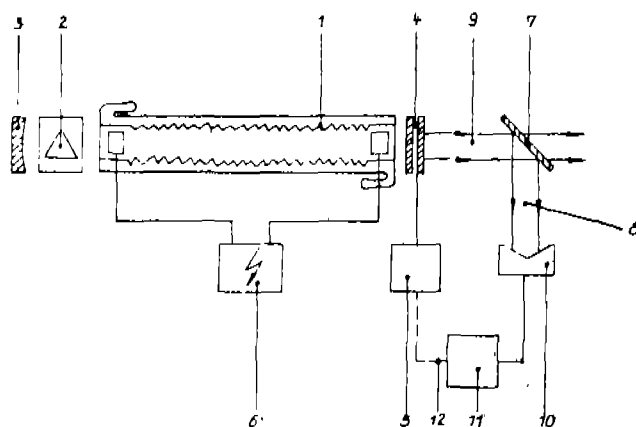
—a first resonator mirror with a fixed reflectivity  $R_1$ , a frequency selective element,

—a highly angle-selective special gas-discharge tube, preferably a gas discharge tube as described in DD-WP H 01 s/199 976, and

—an interferometer arrangement of the Fabry-Perot type adapted to function as a second resonator mirror with a variable reflectivity  $R_2$ , said interferometer arrangement having been formed by a known modulator and comprising at least a material transparent to laser radiation and having a rapidly changeable optical wavelength, whereby it is possible to change the optical path length by appropriate control signals so that the reflectivity  $R_2$  may be adjusted between zero and a maximum, the respective value of  $R_2$  being a function of the laser wavelength.

such that high-power CO<sub>2</sub> laser being forced by the frequency selective and the angle-selective element to operate at a specified fixed wave-length, the total resonator losses either being kept constant by the variable reflectivity  $R_2$  of the Fabry-Perot interferometer arrangement, so that the continuous output power of the CO<sub>2</sub> laser is a maximum at the selected wavelength, or being changed so rapidly and in such wide limits by the variable reflectivity  $R_2$ , that the intensity of the

resulting laser radiation either is modulated with a great depth of modulation and a high speed, or that, with a sufficiently rapid change of the total resonator losses from state, in which the laser is below its operating threshold to a state with full laser function, radiation pulses can be generated with a high power magnification, a fraction of the operating beam is supplied by a beam divider to a fast radiation detector, the measurement signals of which are processed in an electronic circuit, as that the regulating variable, resulting from a comparison of the specified value with the true value can be utilized by an electrical supply device of the special interferometer arrangement to adjust the variable reflectivity  $R_d$ , to ensure the specified value of the laser power.



Compl. Specn. 12 Pages.

Fig. 1

Drs. 1 Sheet.

CLASS : 101-F.  
Int. Cl. : F 16 d 31/00.

167153

#### HYDRODYNAMIC COUPLING.

Applicant : VOITH TUBRO GMBH & CO KG, VOITH-STRASSE 1, D-7180 CRAILSHEIM, FEDERAL REPUBLIC OF GERMANY.

Inventors : (1) BERNHARD SCHIUST, (2) JURGEN LIEBE & (3) HEINZ HOLLER.

Application No. 242/Cal/1987 filed on March 26, 1987.

Appropriate Office for Opposition Proceedings (Rule 4, Patents Rules, 1972), Patent Office, Calcutta.

#### 11 Claims

A hydrodynamic coupling of the kind having :

(a) a primary vane wheel (11) and a secondary vane wheel (12) defining a toroidal working chamber, which can be filled with working fluid via a filling line 21;

(b) a shell which is adapted to rotate with the primary vane wheel (11) and which envelopes the secondary vane wheel (12);

(c) at least one constantly open and throttled outlet port (31) and also an outlet valve (32) provided in the shell (17) for removing heat generated in the working fluid;

(d) an outlet valve (32) which can be closed by means of control hydraulic pressure present in a control line (33) only when there is little slip in the coupling;

(e) characterised in that the fluid inlet (34) into control line (33) is disposed in the shell interior (29) and within a damping chamber (28) separated from the remaining shell interior (29).

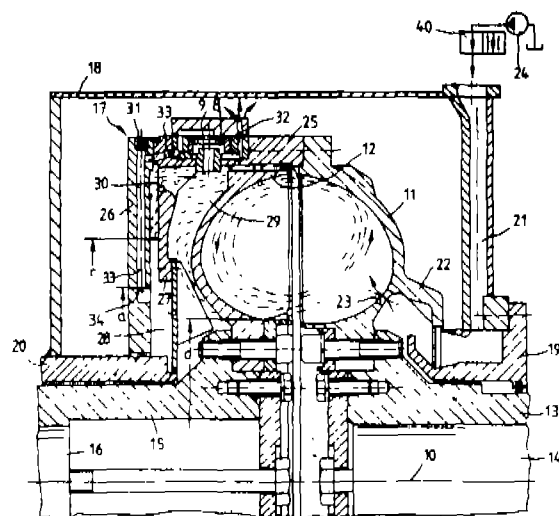


Fig. 1

Compl. Specn. 16 Pages.

Drgs. 2 Sheets.

CLASS : 206-C.  
Int. Cl. : G 01 s 1/00.

167154

#### A SINGLE-POINT LOCATING SYSTEM.

Applicant & Inventor : RICHARD ARTHUR HALAVAIS, OF 3815 NORTH 28TH STREET, PHOENIX, ARIZONA 85016, U.S.A.

Application No. 376/Cal/87 filed on May 8, 1987.

Appropriate Office for Opposition Proceedings (Rule 4, Patents Rules, 1972), Patent Office, Calcutta.

#### 17 Claims

A single point locating system comprising :

a source of radiation the position of which in a scanned region is to be determined;

a relay device having means for scanning said region in a prescribed pattern, said pattern being the composite of a first circular path over said region and a plurality of second circular paths, said second circular paths being smaller than and spaced symmetrically along said first circular path, and means for determining the directions of respective straight lines between said source of radiation and one point on at least two of said second circular paths whereby the position of said source of radiation in said scanned region is determined by the intersection of said straight lines.

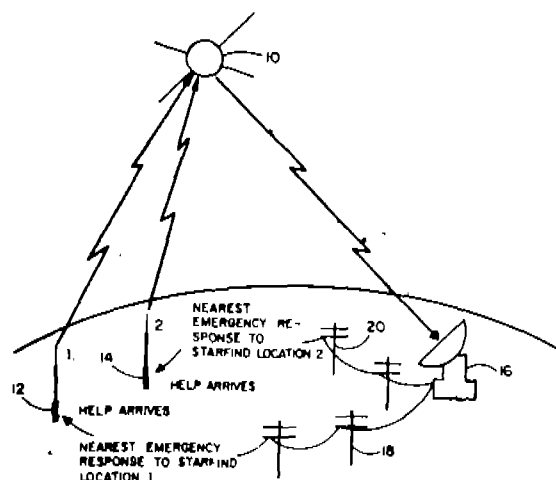


Fig. 1

Compl. Specn. 34 Pages.

Drgs. 4 Sheets.

CLASS : 163-D.

167155

Int. Cl. : F 01 c 1/00.

**IMPROVEMENTS IN OR RELATING TO ROTARY AIR MACHINES.**

Applicant : JOE SANTA & ASSOCIATES PTY. LTD., OF LOT 260, TORRENS AVENUE, CARDIFF, NEW SOUTH WALES 2285, AUSTRALIA.

Inventor : JOSE LUIS SANTA.

Application No. 380/Cal/1987 filed on May 11, 1987.

Appropriate Office for Opposition Proceedings (Rule 4, Patents Rules, 1972) Patent Office, Calcutta.

**6 Claims**

A rotary air machine comprising .

a hollow main body formed of plastics material;

a shaft rotatably supported by said main body so as to be rotatable about a fixed axis;

a plurality of external faces formed on said main body and arranged in opposing parallel pairs, said external faces being parallel to said fixed axis;

a cylinder mounting passage extending through each said external face so that said mounting passages of opposing faces are aligned in a direction transverse of said fixed axis;

a metal cylinder fixed within each of said mounting passages;

a piston reciprocally mounted within each said cylinder;

a cylinder head of plastic material closing a radially outer end of each said cylinder so as to co-operate therewith in defining a variable volume working space with the associated piston;

piston rod means coupling said pistons of opposing one of said cylinders and engaging said shaft so that power is transmitted therebetween;

said shaft includes an eccentric shaft portion having an eccentric rotational axis spaced from said fixed axis but parallel thereto;

passage means communicating with said working spaces and through said passage means high and low pressure air passes to and from said working spaces; and

valve means connected to said shaft so as to be driven thereby and including a high pressure first valve passage to receive high pressure air, and a low pressure second valve passage to receive low pressure air, the valve means being driven to sequentially connect the first and second passages to said passage means to permit the delivery to and exit from said working spaces of said high pressure air and said low pressure air.

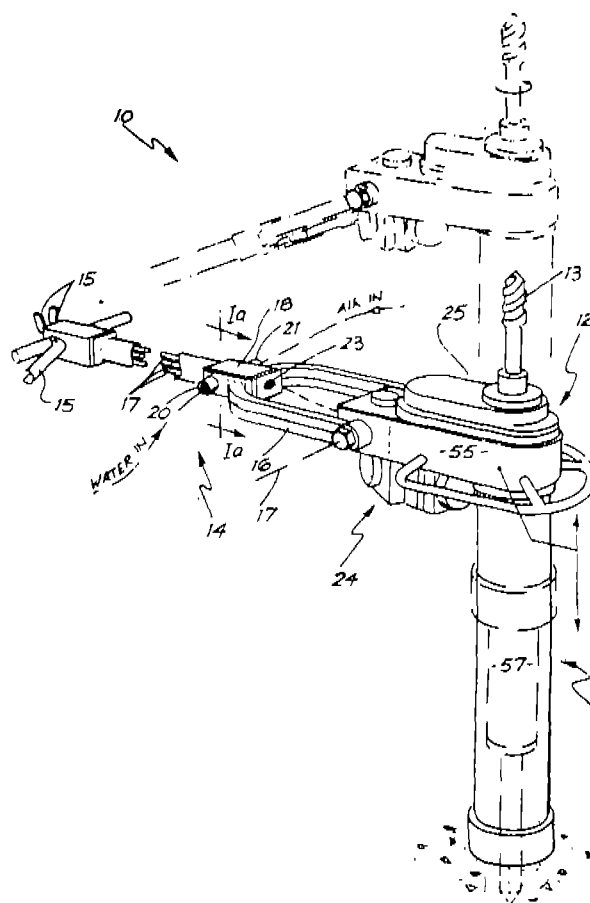


Fig. 1

Compl. Specn. 6 Pages.

Drgs. 5 Sheets.

Int. Cl. : H 01 n 71/12.

167156

**IMPROVEMENTS IN OR RELATING TO CIRCUIT BREAKER WITH ELECTRICAL DISCONNECT MEANS.**

Applicant : WESTINGHOUSE ELECTRIC CORPORATION, OF WESTINGHOUSE BUILDING, GATEWAY CENTER, PITTSBURGH, PENNSYLVANIA 15222, UNITED STATES OF AMERICA.

Inventors : (1) KURT ALBERT GRUNERT & (2) JOSEPH FRANK CHANGLE.

Application No. 391/Cal/1987 filed on May 15, 1987.

Appropriate Office for Opposition Proceedings (Rule 4, Patents Rules, 1972) Patent Office, Calcutta.

**13 Claims**

An electrical circuit breaker comprising a pair of separable electrical contacts, operating means for moving the contacts between OPEN and CLOSED positions, a bracket engaging the operating means for movement between said positions, solenoid actuated means for moving the bracket between ON and OFF positions corresponding to the

CLOSED and OPEN positions of the contacts, the solenoid actuated means including an electromagnet and an armature separately movable against the bracket for alternately moving the operating means into one of the ON and OFF positions upon successive actuations of the solenoid actuated means, characterized in that a bistable mechanical latch having first and second positions for alternately positioning the bracket in the ON or OFF position upon successive actuations of the electromagnet, a manual operator to move the

bracket between the ON and OFF positions, the bracket being immovable by the electromagnet from the OPEN contact position when the manual operator is in the OFF position, the bracket being movable by the electromagnet between ON and OFF positions when the manual operator is in the ON position, and the mechanical latch including stop means movable into and out of the path of movement of the bracket to prevent movement of the solenoid actuated means when the manual operator is in the OFF position.

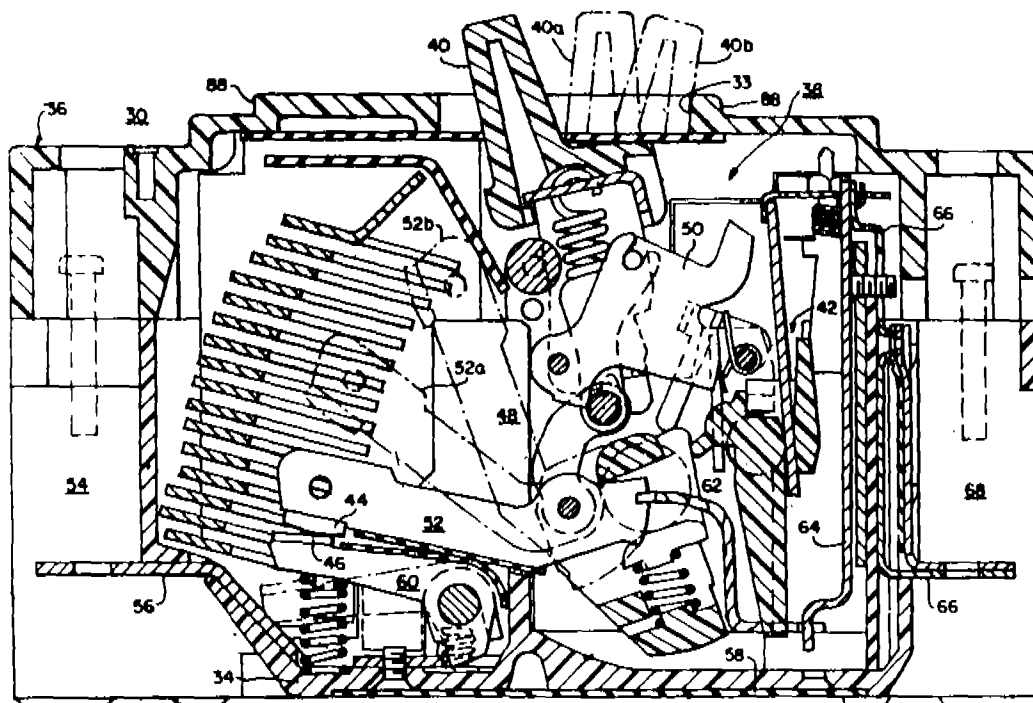


Fig. 1

Compl. Specn. 16 Pages.

Drgs. 5 Sheets.

CLASS : 68-D.  
Int. Cl. : H02 h 9/00.

167157

Appropriate Office for Opposition Proceedings (Rule 4, Patents Rules, 1972), Patent Office, Calcutta.

A CIRCUIT FOR PROTECTING A CONVERTOR POWER SUPPLY.

11 Claims

Applicant: POWERTRON LIMITED, OF AINSWORTH PLACE, CAMBRIDGE CB1 2 PQ, ENGLAND.

Inventor : MILES DAVID ADAM BULKYN RACKOWE.

Application No. 470/Cal/1987 filed on June 17, 1987.

Convention dated 19th June, 1986; No. 8615010, United Kingdom.

A circuit for protecting a convertor power supply fed through a supply path from a supply source which may contain voltage transients or spikes, comprising a low resistance current link in the supply path and in parallel therewith a higher resistance current link and circuit means responsive to the magnitude of the current drawn from the supply source which varies in the same manner as the current flowing from the supply source along the supply path, the feed back signal being capable of progressively increasing the effective resistance of the low resistance link with increasing supply current and to effectively open circuit the low resistance link if the supply voltage reaches a predetermined value so as to thereafter force the current supply to flow through the high resistance link, thereby at all times limiting the supply current.

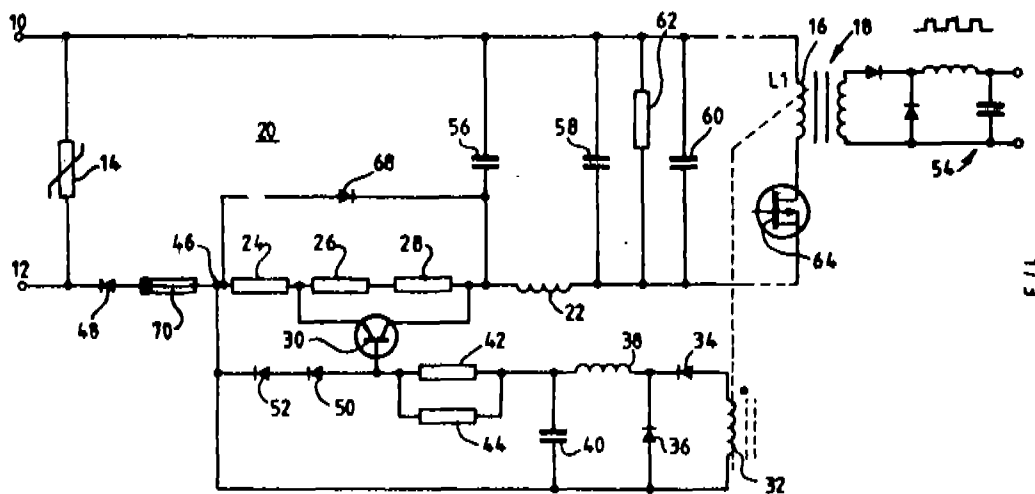


Fig. 1

Compl. Specn. 13 Pages.

Drgs. 3 Sheets.

Int. Cl. : B 03 b 13/00.

167158

**APPARATUS FOR CONTROL OF JIG SEPARATORS FOR MINERALS.**

Applicant : UNIVERSITY OF QUEENSLAND, OF ST. LUCIA, QUEENSLAND, 4067, AUSTRALIA.

Inventor : GEOFREY JOHN LYMAN.

Application No. 50/Cal/1987 filed on June 29, 1987.

Convention dated 27th June, 1986; No. PH 6612, AUSTRALIA.

Appropriate Office for Opposition Proceedings (Rule 4, Patents Rules, 1972), Patent Office, Calcutta.

5 Claims

Apparatus for the control of jig separators for minerals including :

a radiation source ;

at least one radiation detector in the jig bed, to measure the absorption of the radiation from the source by the material in the said jig bed;

timing means to separate the jig cycle into consecutive short segments;

computation means to determine the actual density of the material in the bed in each segment from the count rate by the detector and thereby determine the density signature or profile over the jig cycle; and

control means operating in response to the density profile signature or profile to vary the operating parameters of the jig to maintain the density signature or profile within a preselected control envelope.

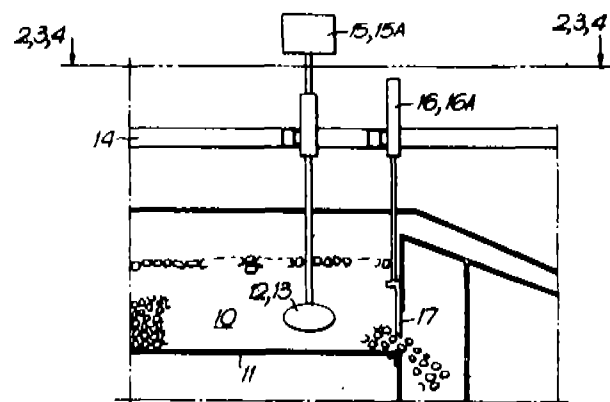


Fig. 1

Compl. Specn. 18 Pages.

Drgs. 4 Sheets.

Class : 145-D.

167159

Int. Cl. : D 21 F 1/00; 5/00; 7/00.

**A WEB TRANSFER APPARATUS.**

Applicant : BELOIT CORPORATION, OF P. O. BOX 350, BELOIT, WISCONSIN 53511, UNITED STATES OF AMERICA.

Inventor : GREGORY LYNN WEDEL.

Application No. 553/Cal/87 filed on July 17, 1987.

Appropriate Office for Opposition Proceedings (Rule 4, Patents Rules, 1972) Patent Office, Calcutta.

15 Claims.

A web transfer apparatus for transferring a web from a press section to a dryer section, said transfer apparatus comprising :

a dryer fabric extending around the dryer section for conveying the web from the press section to, and around, the dryer section so that excess water remaining in the web after the pressing section is removed from the web when passing through the dryer section;

a first plurality of rotatable rolls for movably supporting said dryer fabric;

frame means for rotatably supporting said first plurality of rolls;

said first plurality of rolls including :

a lead-in roll disposed adjacent to the press section for guiding the web from the press section towards the dryer section :

a first transfer roll means spaced relative to said lead-in roll for guiding the web through the dryer section;

a transfer fabric cooperating with said dryer fabric such that said transfer fabric and said dryer fabric define there-between a transfer section which extends along said dryer fabric and between said lead-in roll and said first transfer roll means; and

said transfer section permitting support of the web there-through so that the web is easily led to the dryer section while inhibiting any tendency of the web to droop during threading of the web from the press section to the dryer section.

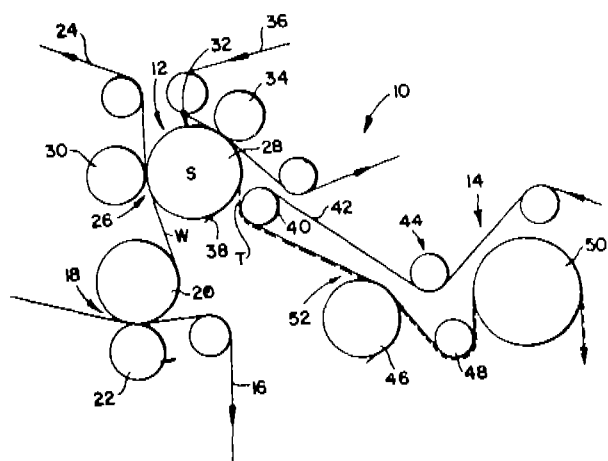


Fig. 1

Compl. Specn. 23 Pages;

Drgs. 7 Sheets

Class : 56-C.

167160

Int. Cl. C 30 b 15/00, 15/14.

#### PROCESS FOR GROWING SHAPED SINGLE CRYSTALS.

Applicant : VSESOJUZNY NAUCHNO-ISSLEDOVATELSKY PROEKTNIKONSTRUKTORSKY I TEKHNOLGICHESKY INSTITUT ELEKTROTERM ICHESKOGO OBORUDOVANIA (VNIETO), OF ULITS NIZHEGORODSKAYA, 29, MOSCOW, U S S R.

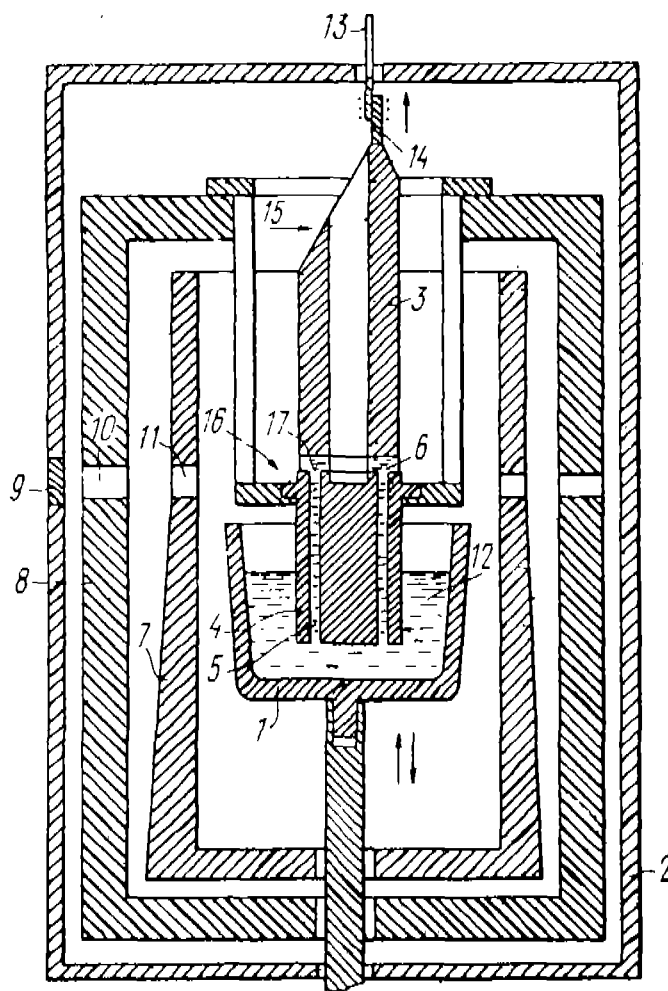
Inventors : (1) DMITRY YAKOVLEVICH KRAVETSKY, (2) LEV MARKOVICH ZATULOVSKY, (3) LEONID PETROVICH EGOROV, (4) BORIS BENTSIONOVICH PELTS, (5) LEONID SAMUILOVICH OKUN, (6) EFTIM ALEXANDROVICH FREIMAN, (7) VIKTOR VASILIEVICH AVERYANOV, (8) ALEXANDR LVOVICH ALISHOEV.

Application No. 797/Cal/87 filed on October 13, 1987.

Appropriate Office for Opposition Proceedings (Rule 4, Patents Rules, 1972) Patent Office, Calcutta.

#### 1 Claim

A process for growing shaped single crystals of refractory optically transparent metal compounds, wherein into a melting zone a starting stock of a respective refractory metal compound is charged; one control particle of the starting stock is placed into the crystallization zone, the starting stock is heated in an inert gas atmosphere till melting of the control particle of the starting stock; the power P of the heater is recorded at the moment of melting of the control particle, the starting stock is melted at a power of the heater of  $(1.04-1.1) P$ ; the seed is fused in the crystallization zone at a heater power of  $(1.03-1.08) P$ ; the single crystal is built-up at a heater power of  $(1.02-1.08) P$ ; the single crystal is pulled from the crystallization zone to the required length at a heater power of  $(1.02-1.22) P$  under a continuous supply of the melt into the crystallization zone through a capillary system of a shaping unit; the single crystal is cut-off from the melt and cooled at a rate of  $20-30^{\circ}\text{C}/\text{min}$  by decreasing power of the heater; upon achieving temperature of the single crystal of  $1,600-1,550^{\circ}\text{C}$  the heater is switched-off.



Compl. Specn. 22 Pages;

Drg. 1 Sheet

#### REGISTRATION OF ASSIGNMENT, LICENCE ETC. (DESIGN)

Assignments, Licences or other transactions affecting the interest of the original proprietors have been registered in the following cases. The number of each case is followed by the names of the applicants for registration:

156376	Elizabeth Arden, Inc., a Corporation of the State of Indiana, U.S.A., 55 East 52nd Street, New York, New York-10055, U.S.A.
158836	
158838	



## REGISTRATION OF DESIGNS

The following design have been registered. They are not open to inspection for a period of two years from the date of registration except as provided for in Section 50 of the Design Act, 1911.

The date shown in the each entry is the date of registration in the entry.

- Class 1. No. 161858. Indian Oil Corporation Ltd., of G-9, Ali Yavar Jang Marg, Bandra (East), Bombay-400 051, Maharashtra, India, an Indian Company, "Burner Assembly for Kerosene oil wick lamp." 1st February, 1990.
- Class 1. No. 161859. Indian Oil Corporation Ltd., of G-9, Ali Yavar Jang Marg, Bandra (East), Bombay-400 051, Maharashtra, India, an Indian Company, "Burner Assembly for Kerosene oil wick lamp." 1st February, 1990.
- Class 3. No. 161868. Shah Engineering, Dayasagar, Bhayandar (E), Dist: Thane-401105, State of Maharashtra, India, "Paper-locks". 7th February, 1990.
- Class 3. No. 161871. Samuel Fitz & Co. Pvt. Ltd., an Indian Company of 26, Jawahar Lal Nehru Road, Calcutta-700 013, West Bengal, India, "Bottle Seal Cap". 8th February, 1990.
- Class 3. No. 161872. Samuel Fitz & Co. Pvt. Ltd., an Indian Company of 26, Jawahar Lal Nehru Road, Calcutta-700 013, West Bengal, India, "Bottle Pilferproof Fixture". 8th February, 1990.
- Class 3. No. 161939. Vikant Plastic Industries Private Limited (an Indian Company) at 23/4, Tardeo Airconditioned Market, Tardeo Road, Bombay-400 034, State of Maharashtra, India, "Tag Pin for garments." 15th March, 1990.
- Class 3. No. 162054. Pond's (India) Limited, an Indian Company of 26, C-IN-C Road, Madras-600 105, India, "Bottle". 24th April, 1990.
- Class 3. No. 162068. Malik Industries, an Indian registered partnership firm of A/G/17, Saraf Kaaka Industrial Estate, S. V. Road, Jogeshwari, Bombay-400 102, Maharashtra, India, "Jewel Box". 30th April, 1990.
- Class 3. No. 162069. Malik Industries, an Indian registered partnership firm of A/G/17, Saraf Kaaka Industrial Estate, S. V. Road, Jogeshwari, Bombay-400 102, Maharashtra, India, "Jewel Box". 30th April, 1990.
- Class 3. No. 162070. Malik Industries, an Indian registered partnership firm of A/G/17, Saraf Kaaka Industrial Estate, S. V. Road, Jogeshwari, Bombay-400 102, Maharashtra, India, "Jewel Box". 30th April, 1990.
- Class 1. No. 162071. Malik Industries, an Indian registered partnership firm of A/G/17, Saraf Kaaka Industrial Estate, S. V. Road, Jogeshwari, Bombay-400 102, Maharashtra, India, "Jewel Box". 30th April, 1990.
- Class 1. No. 162072. Malik Industries, an Indian registered partnership firm of A/G/17, Saraf Kaaka Industrial Estate, S. V. Road, Jogeshwari, Bombay-400 102, Maharashtra, India, "Jewel Box". 30th April, 1990.
- Class 3. No. 162128. Medal Chemicals & Research Works Pvt. Ltd., an Indian Company of 3, Khelat Babu Lane, Calcutta-700037 West Bengal, India, "Container". 23rd May, 1990.
- Class 3. No. 162148. Bholia Plastic Industries Private Limited, (a Company incorporated under the Indian Companies

Act), whose address is B-34/5, G. T. Karnal Road Industrial Area, Delhi-110 033, India, "Time Piece". 28th May, 1990.

- Class 3. No. 162162. MRF Limited, 826, Anna Road, Madras-600 002, Tamil Nadu, India, "Tyres". 31st May, 1990.
- Class 3. No. 162163. MRF Limited, 826, Anna Road, Madras-600 002, Tamil Nadu, India, "Tyres". 31st May, 1990.
- Class 3. No. 162261. MRF Limited, Tarapore Towers, 826, Anna Salai, Madras-600 002, Tamil Nadu, India, "Tyre". 29th June 1990.
- Class 3. No. 162262. MRF Limited, Tarapore Towers, 826, Anna Salai, Madras-600 002, Tamil Nadu, India, "Tyre". 29th June 1990.
- Class 3. No. 162263. MRF Limited, Tarapore Towers, 826, Anna Salai, Madras-600 002, Tamil Nadu, India, "Tyre". 29th June 1990.
- Class 4. No. 161899. HMM Limited, an Indian Company of Patiala Road, Nabha-147 201, Punjab, India, "Bottle". 22nd February, 1990.
- Class 10. No. 161813. Alert India, a partnership firm of address A/137/6, Group Industrial Area, Wazirpur, Delhi-110 052, "Sole of Footwear". 23rd January, 1990.
- Class 12. No. 161840. Riche Rich Products, A-18, Ram House, Middle Circle, Connaught Place, New Delhi-110 001, India, "Toy". 29th January, 1990.
- Class 12. No. 161841. Riche Rich Products, A-18, Ram House, Middle Circle, Connaught Place, New Delhi-110 001, India, "Toy". 29th January, 1990.
- Class 12. No. 161842. Riche Rich Products, A-18, Ram House, Middle Circle, Connaught Place, New Delhi-110 001, India, "Toy". 29th January, 1990.
- Class 12. No. 161843. Riche Rich Products, A-18, Ram House, Middle Circle, Connaught Place, New Delhi-110 001, India, "Toy". 29th January, 1990.
- Class 12. No. 161844. Riche Rich Products, A-18, Ram House, Middle Circle, Connaught Place, New Delhi-110 001, India, "Toy". 29th January, 1990.
- Class 12. No. 161845. Riche Rich Products, A-18, Ram House, Middle Circle, Connaught Place, New Delhi-110 001, India, "Toy". 29th January, 1990.
- Class 12. No. 161846. Riche Rich Products, A-18, Ram House, Middle Circle, Connaught Place, New Delhi-110 001, India, "Toy". 29th January, 1990.

*Copyright extended for the second period of five years.*

- Nos. 155540 ..... Class 1
- Nos. 155956, 155957, 156449, 156450 ..... Class 3

*Copyright extended for the third period of five years.*

- Nos. 149584, 149944 ..... Class 3

R. A. ACHARYA  
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